SC2006: Software Engineering Lab 2 Deliverables

DateGoWhere

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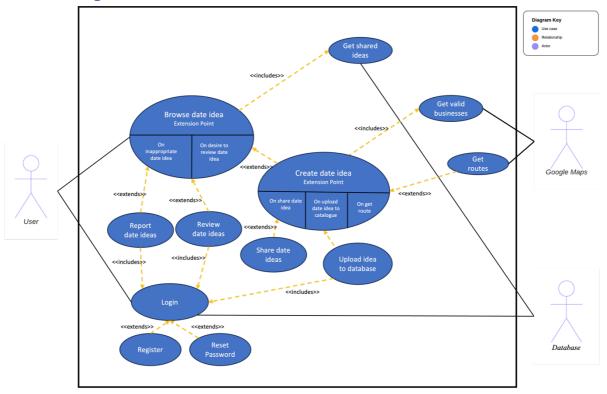
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Introduction

DateGoWhere is a web application that facilitates the planning of dates with significant others, families, and friends. Users can share their date itineraries on the app's catalogue for others to view and use. Users can also rate other date itineraries in the catalogue, as well as leave their reviews.

Use Case Model Use Case Diagram



Use Case Descriptions

Use Case ID:	UCX - 001		
Use Case	Upload Date Idea		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

Actor:	User		
Description:	User can upload their date ideas onto the app for others to		
	view. They can include information such as location, time		
	required, price, and activities to be done. With more		
	uploaded ideas, other users will be able to gain more		
	inspiration for dates.		
Preconditions:	User is logged in and authenticated.		
Postconditions:	Date idea is successfully uploaded to the app.		
Priority:	High		
Frequency of Use:	Frequent		
Flow of Events:	1. User selects the "Upload Date Idea" option.		
	2. User submits the date idea.		
	The app processes the information provided.		
	4. If uploading is successful, the date idea is added to		
	the app's database.		
	The app notifies the user of successful upload.		
Alternative Flows:	AF-S6. If uploading fails (e.g., missing information), the app		
	displays an error message, and the user is prompted		
	to correct the details. App returns to Step 2.		
Exceptions:	-		
Includes:	 Authentication required prior to uploading date idea. 		
Special Requirements:	-		
Assumptions:	-		
Notes and Issues:	-		

Use Case ID:	UCX - 002		
Use Case	Delete/Edit Date Idea		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

Actor:	User	
Description:	User can edit or delete their uploaded date ideas. Date ideas	
	specific to events may be outdated or unavailable, hence	
	ideas must be updated to remain relevant.	
Preconditions:	User is logged in and authenticated.	
Postconditions:	Date idea is successfully deleted or edited.	
Priority:	Low	
Frequency of Use:	Seldom	
Flow of Events:	 User selects a date idea they have previously uploaded. 	
	2. User chooses to either edit or delete the date idea.	
	3. If editing, the user makes changes to the date idea	
	details and submits the updated information.	
	4. If deleting, the user confirms to delete the idea.	
	5. The app processes the edit or delete request.	
	6. The app notifies the user of the success or failure of	
	the request.	
Alternative Flows:	AF-S5. If processing fails (e.g., missing information), the app	
	displays an error message, and the user is prompted to	
	correct the details. App returns to Step 3 or 4.	
Exceptions:	-	
Includes:	1. Authentication required prior to modifying date idea.	
Special Requirements:	-	
Assumptions:	-	
Notes and Issues:	-	

Use Case ID:	UCX - 003		
Use Case	Browse Date Idea		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

Actor:	User		
Description:	User can browse various date ideas uploaded from other		
	Users. Users can filter date ideas by theme, location and		
	price. Users can click date idea to view the location, price,		
	activities done during the date and more information.		
Preconditions:	User has app downloaded.		
Postconditions:	User views a list of date ideas based on applied filters and		
	views further information on interested date idea.		
Priority:	High		
Frequency of Use:	Frequent		
Flow of Events:	User selects the "Browse Date Ideas" option.		
	2. User applies filters (e.g., price, distance, theme) to		
	narrow down the list of date ideas.		
	3. The app retrieves and displays date ideas based on		
	the applied filters.		
	4. User can click on a date idea to view more		
	information.		
	5. User views a map feature with location of date idea		
	and a list of information such as price and activities to		
	be done.		
Alternative Flows:	AF-S3. If no date ideas match the applied filters, the app		
	informs the user accordingly. App returns to Step 2.		
Exceptions:	-		
Includes:	Get shared date ideas from other users.		
Special Requirements:	-		
Assumptions:	-		
Notes and Issues:	-		

Use Case ID:	UCX - 004		
Use Case	Plan Date Idea		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

Actor:	User		
Description:	User can select interested date idea and input their home		
	address, partner's address, and other locations he/she wants		
	to visit. The app will then suggest the fastest route based on		
	Google Maps route API.		
Preconditions:	User has app downloaded.		
Postconditions:	User receives a planned route with estimated time required.		
Priority:	Medium		
Frequency of Use:	Frequent		
Flow of Events:	User selects a date idea they are interested in.		
	User chooses the "Plan Date Idea" option.		
	3. User inputs the locations they plan to visit during the		
	date, in sequence.		
	4. The app uses the Google Maps API to calculate and		
	display an end-to-end route from the user's location		
	to the date idea's location and other included		
	locations.		
	5. The app estimates the time required for the planned		
	date.		
	6. User can choose to discard, save or share the planned		
	route.		
Alternative Flows:	AF-S4. If the Google Maps API is unable to provide location		
	for the User input location, an error message will be		
	displayed. App returns to Step 3.		
Exceptions:	-		
Includes:	 Google Maps Routes API to plan routes. 		
	Google Maps Places API to get valid businesses		
	3. Share Date Idea is extended to provide option for		
	User to share route with their partner.		
Special Requirements:	-		
Assumptions:	-		
Notes and Issues:	Time estimation will be based on expected duration at the		
	intended time of date. Exact time will be unable as User will		
	likely be planning date beforehand.		

Use Case ID:	UCX - 005		
Use Case	Review Date Idea		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

Actor:	User	
Description:	User can review a date idea after he/she has gone through it.	
	The review will be done in 2 steps. User can provide a star	
	rating out of 10. User can also optionally type out a review	
	paragraph of maximum	
Preconditions:	User is logged in and authenticated.	
Postconditions:	User submits a review for the date idea.	
Priority:	Medium	
Frequency of Use:	Seldom	
Flow of Events:	 User selects a date idea they have completed. 	
	User chooses the "Review Date Idea" option.	
	User provides a rating out of 10 stars.	
	4. User can choose to include a written review of the	
	date idea.	
	If User chooses to include a written review, he/she	
	will be prompted to type his review.	
	6. The app processes the review.	
	7. The app notifies the user that the review has been	
	successfully submitted.	
Alternative Flows:	AF-S6. If review cannot be processed (e.g. Too many	
	characters for review, the app will display an error message.	
	App returns to Step 5.	
Exceptions:	-	
Includes:	1. Authentication required prior to reviewing date idea.	
Special Requirements:	-	
Assumptions:	User has completed the date idea.	
Notes and Issues:	-	

Use Case ID:	UCX - 006		
Use Case	Share Date Idea		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

Actor:	Date Seeker		
Description:	User can share either the date idea or the route planned with		
	partner or friends. The sharing will be done through social		
	media platforms such as Telegram, WhatsApp, or Email.		
Preconditions:	User has app downloaded.		
Postconditions:	User shares the date idea to their intended recipient.		
Priority:	Medium		
Frequency of Use:	Frequent		
Flow of Events:	 User selects a date idea or the date route planned 		
	they want to share.		
	2. User chooses the "Share Date Idea" option.		
	3. The app provides options for sharing via various social		
	media platforms.		
	4. User selects a platform and shares the date idea with		
	their partner or friends.		
	5. The app processes the sharing.		
	6. The app notifies the user that the idea has been		
	shared successfully.		
	,		
Alternative Flows:	AF-S5. If there are issues with sharing on social media (e.g.,		
	authentication failure), the app informs the user. App returns		
	to Step 4.		
Exceptions:	-		
Includes:	-		
Special Requirements:	_		
Assumptions:	-		
Notes and Issues:	-		

Use Case ID:	1.1		
Use Case	Login User		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	13/09/23
		Updated:	

Actor:	Date Seekers and Date Suggesters	
Description:	All Users must log in to their account before they can upload	
	ideas or review ideas. This is to provide legitimacy and	
	accountability of ideas uploaded and the quality of reviews.	
Preconditions:	 User has an existing account 	
	AND	
	2. have not logged in.	
Postconditions:	User successfully logs in.	
Priority:	High. User will need to login to his/her account to be able to	
	review, report or upload date ideas.	
Frequency of Use:	1 time per session	
Flow of Events:	 User inputs their email and password in the 	
	respective input boxes.	
	2. User clicks "Log In".	
	System submits a POST request with the user's	
	credentials for verification with the database.	
	4. System checks for existence of email.	
	5. System validates password associated with the user's	
	email.	
	6. System displays "Successful sign in".	
	7. System redirects the user to the home page	
Alternative Flows:	AF1-S4: Email does not exist:	
	 System displays "Invalid email, please register" 	
	2. System returns to step 1. User can choose to try login	
	again or click Register instead.	
	AF2-S5: Invalid password:	
	1. System displays "Invalid password, if you forgot your	
	password, please reset"	
	2. System returns to step 1. User can choose to login	
	with a different password or click Reset Password	
	instead.	
Exceptions:	EX-S5 – If User inputs password incorrectly more than 5	
	times, the app displays message "Account suspended". A	
	reset password email is sent to the registered email, for the	
	User to login again.	
Includes:	-	
Special Requirements:	User has a registered account in the app database.	
Assumptions:	-	
Notes and Issues:	-	

Use Case ID:	1.2		
Use Case	Register User		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	13/09/23	Date Last	13/09/23
		Updated:	

Actor:	Date Seekers and Date Suggesters	
Description:	If a user does not have an account registered with the app,	
	he is required to register using an email to enable him to	
	login for use of review, report and uploading of date ideas.	
Preconditions:	 User does not have an existing account 	
Postconditions:	User successfully registers an account.	
Priority:	Medium. User will need to register an account to gain access	
	to features within the app.	
Frequency of Use:	1 time per user lifetime.	
Flow of Events:	1. User clicks "Sign Up" on Entry Page.	
	2. User inputs "First Name", "Last Name", "Email" and	
	"Password" respective input boxes.	
	3. User clicks "Sign Up" button.	
	4. System submits a POST request with the user's email	
	the database for verification with the database.	
	5. If email does not exist on the database, system	
	performs a check on the password input to determine	
	whether it satisfies the conditions: at least 8	
	characters long AND contains at least one uppercase	
	(A-Z) AND one lowercase (a-z) character, AND any of	
	the following special characters:	
	(!,@,#,\$,%,^,&,*,(,),_,-,=,+).	
	6. If password satisfies the conditions, system submits a	
	POST request with the user's email and password to	
	add into the database.	
	7. System will prompt user "Signed-up successfully"	
	upon successful registration.	
	8. The system redirects the user to the login page	
Alternative Flows:	AF3-S5: Email already exists	
	1. System prompts user: "Email is already used, please	
	login or choose another email".	
	2. System returns to step 1. User can either sign up with	
	a different email or go back to login with current	
	email.	
	454.66.79	
	AF1-S6: Password does not meet requirement	
	System prompts users: "Please ensure that your	
	password consist of at least 8 characters long AND	
	contains at least one uppercase (A-Z) AND one	

	lowercase (a-z) character, AND any of the following special characters: (!,@,#,\$,%,^,&,*,(,),_,-,=,+)." 2. System returns to step 2.
Exceptions:	-
Includes:	-
Special Requirements:	User email is not registered in the database.
Assumptions:	-
Notes and Issues:	-

Use Case ID:	1.3		
Use Case	Reset password		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	13/09/23	Date Last	13/09/23
		Updated:	

Actor:	User, Database	
Description:	If a user is unable to login to his account, he is able to reset	
	his password using his email	
Preconditions:	 User has an existing account 	
	AND	
	2. User is not signed in	
Postconditions:	User successfully resets password to account.	
Priority:	Low. Only users who has forgotten their password will use	
	this feature.	
Frequency of Use:	2-3 times per user lifetime.	
Flow of Events:	 User clicks "Reset Password" on Entry Page. 	
	2. User inputs "Email" in input box.	
	3. If email exists in the database, system sends an email	
	to user's email.	
	4. User clicks on the hyperlink in the email.	
	5. User is directed to "Password Reset" page	
	6. User inputs "New Password" in input box.	
	7. User clicks on "Confirm Password Reset" button.	
	8. System performs a check on the password input by	
	the user and satisfy the conditions: at least 8	
	characters long AND contains at least one uppercase	
	(A-Z) AND one lowercase (a-z) character, AND any of	
	the following special characters:	
	(!,@,#,\$,%,^,&,*,(,),_,-,=,+).	
	9. If password is valid, system submits a POST request	
	with the user's email and new password for	
	verification with the database.	
	10. System will successfully modify password in the	
	database.	
Altania di la Cla	11. The system redirects the user to the login page	
Alternative Flows:	AF-S3: Email does not exist.	
	 System prompts user: "Email not found please sign up" 	
	2. Redirects user to sign-up page.	
	AF-S9: Password does not meet requirement.	
	System prompts user: "Please ensure that your password satisfy the passessary conditions"	
	password satisfy the necessary conditions". 2. Returns to step 1.	
	2. Actums to step 1.	

Exceptions:	-
Includes:	-
Special Requirements:	User email is registered in the database.
Assumptions:	-
Notes and Issues:	-

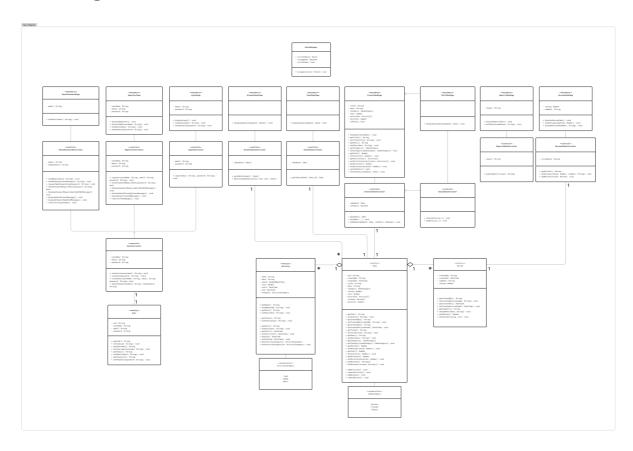
Use Case ID:	UCG - 001		
Use Case	Get Valid Businesses		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

Actor:	Google Maps
Description:	Retrieve location information for an input address on the integrated Map feature. This will help users to plan their date more easily.
Preconditions:	User has input an address/postal code/place name into the App.
Postconditions:	User is successfully displayed input location on the Map.
Priority:	High
Frequency of Use:	Frequent
Flow of Events:	 User inputs the location either through text input or allowing access to location data. App provides input to Google Maps Places API. If Google Maps Location API can find location, it provides details of location to App. App displays location as a marker on the Integrated Map.
Alternative Flows:	AF-S3 - If Google Maps Places API cannot find location (e.g., invalid postal code), the app displays an error message and prompts the user to enter another location. App returns to Step 2.
Exceptions:	-
Includes:	-
Special Requirements:	Google Maps Places API
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UCG - 002		
Use Case	Get Routes		
Name:			
Created By:	Paviru	Last Updated By:	Paviru
Date Created:	03/09/23	Date Last	03/09/23
		Updated:	

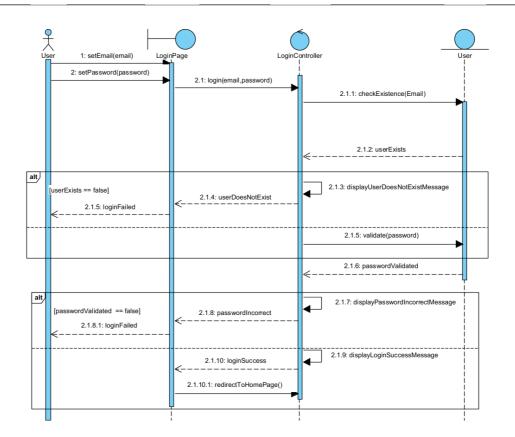
Actor:	Google Maps
Description:	Retrieve optimal route for an input address and location
	listed on date idea on the integrated Map feature. This will
	help users to plan their date more easily.
Preconditions:	User has input at least 2 address/postal code/place name
	into the App.
Postconditions:	User is successfully displayed route going through all input
	locations on the Map.
Priority:	High
Frequency of Use:	Frequent
Flow of Events:	 User inputs multiple locations either through text input or allowing access to location data. User must put the locations in sequence of intended visit. App provides input to Google Maps Routes API. If Google Maps Routes API can find all locations and valid routes to all locations, it provides details of route to App. App displays route on the Integrated Map.
Alternative Flows:	AF-S3 - If Google Maps Routes API cannot find location (e.g., invalid postal code), the app displays an error message and prompts the user to enter another location. App returns to Step 2 If Google Maps Routes API cannot find a valid route (e.g., inaccessible location), the app displays an error message and prompts the user to enter another location. App returns to Step 2.
Exceptions:	-
Includes:	-
Special Requirements:	Google Maps Location API
Assumptions:	-
Notes and Issues:	-

Class Diagram

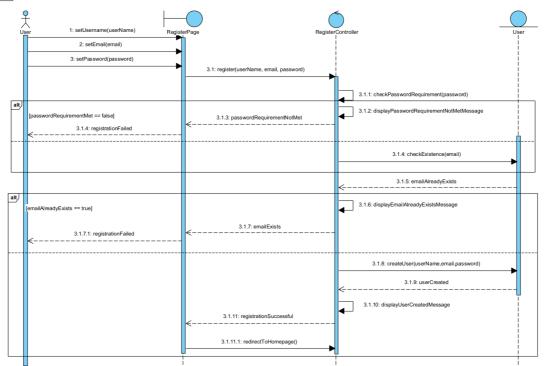


Sequence Diagrams

Login sd [Login]

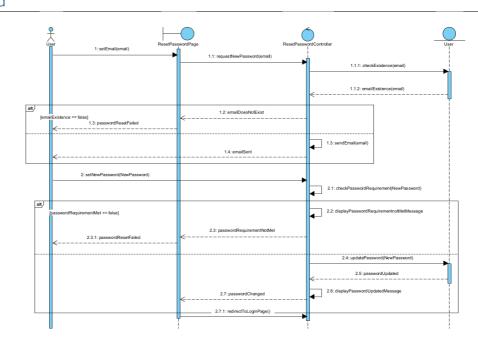


Register sd [Register]



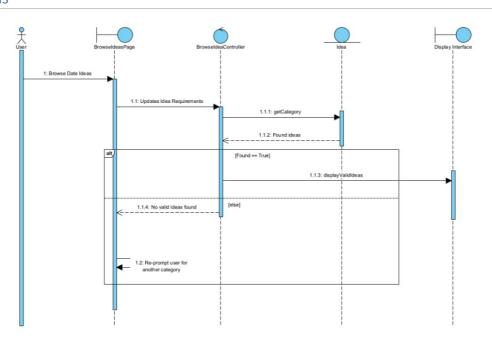
Reset Password



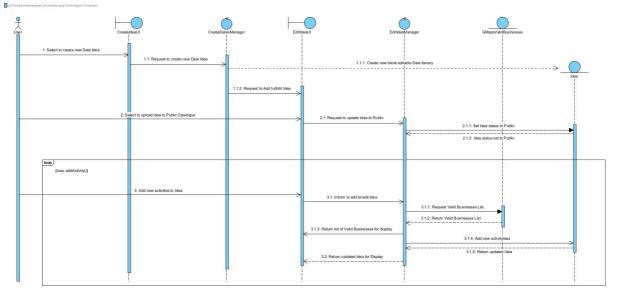


Browse Ideas

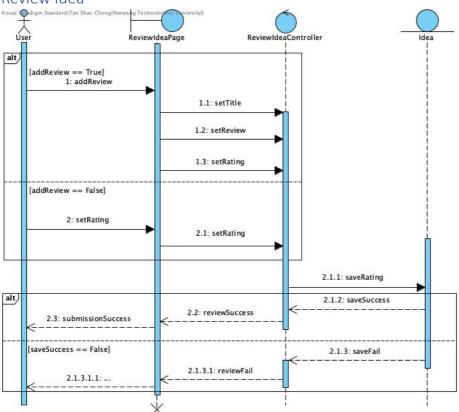
sd [Browse]



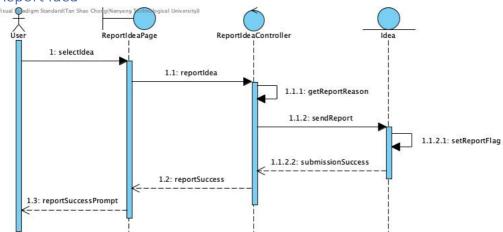
Create Idea



Review Idea



Report Idea



Dialog Map

